

Home Solar Battery Solution

The Next Level All-in-One

EcoFlow OCEAN 2 Three-Phase

5/6/8/10/12/15 kW

EcoFlow OCEAN 2 Hybrid Inverter Three-Phase

Technical parameters		EF HD-P3-5K0-S2 EF HD-P3-5K0-S2F	EF HD-P3-6K0-S2 EF HD-P3-6K0-S2F	EF HD-P3-8K0-S2 EF HD-P3-8K0-S2F	EF HD-P3-10K0-S2 EF HD-P3-10K0-S2F	EF HD-P3-12K0-S2 EF HD-P3-12K0-S2F	EF HD-P3-15K-G2 EF HD-P3-15K-G2F
PV Input	Number of MPPTs	3					
	Number of Strings per MPPT	1					
	Max. Input Power per MPPT(W)	8000					
	Max. Input Voltage[1] (V)	1000					
	PV Operating Voltage Range(V)	50~1000					
	Nominal DC Input Voltage(V)	600					
	MPPT Start-up Voltage(V)	120					
	Max. Total Input Power(W)	10000	12000	16000	20000	24000	24000
	Max. Input Current per MPPT(A)	16					20
	Max. Short Circuit Current per MPPT(A)	20					25
AC Input/Output (On-Grid)	Nominal Output Power(W)	5000	6000	8000	10000	12000	15000
	Max. Output Apparent Power(VA)	5000	6600	8800	11000	13200	15000
	Supported Power Grid Types	Supports TN-S,TN-C,TN-C-S,TT systems					
	Nominal Voltage(V)	L-L:380/400Vac; L-N:220/230Vac; 3L+N+PE					
	Nominal Frequency(Hz)	50/60Hz					
	Nominal Output Current	7.2A@230V; 7.6A@220V	8.7A@230V; 9.1A@220V	11.6A@230V; 12.2A@220V	14.5A@230V; 15.2A@220V	17.4A@230V; 18.2A@220V	21.7A@230V; 22.7A@220V
	Max. Output Current(A)	8.9	10.7	14.3	17.8	21.4	25
	Max. Input Current(A)	63					
	Power Factor	0.8 leading ~ 0.8 lagging					
	THDi at Full Load	Current Total Harmonic Distortion ≤3%					
AC Output (Backup)	Nominal Output Power(W)	5000	6000	8000	10000	12000	15000
	Nominal Output Voltage(V)	L-L:380/400Vac; L-N:220/230Vac; 3L+N+PE					
	Nominal Output Frequency(Hz)	50/60Hz					
	Nominal Output Current	7.2A@230V; 7.6A@220V	8.7A@230V; 9.1A@220V	11.6A@230V; 12.2A@220V	14.5A@230V; 15.2A@220V	17.4A@230V; 18.2A@220V	21.7A@230V; 22.7A@220V
	Off-grid THDu	≤2%					
Parallel Installation	Maximum on-grid Capacity[2]	Up to 5 cascaded inverters					
	Maximum off-grid Capacity	Up to 2 cascaded inverters					
Battery Input/ Output	Rated Voltage(V)	800					
	Voltage Range(V)	720~960					
	Battery Capacity	Up to 12 Battery Modules					
	Communication Method	CAN					
Efficiency	Max. Efficiency	≤97.9%	≤98%				

Protection	Grid-to-Off-grid Switching Time[3](ms)	0
	Off-grid-to-Grid Switching Time[3](ms)	0
	GFCI	Yes
	AFCI	Yes
	PV Insulation Resistance Detection	Yes
	Anti-islanding Protection	Yes
	PV Reverse Polarity Protection	Yes
	Emergency Power Off (EPO)	Yes
	DC Surge Protection	Type II
	AC Surge Protection	Type II
	AC Overcurrent Protection	Yes
	AC Short Circuit Protection	Yes
	AC Overvoltage Protection	Yes
General	Relative Humidity	0% ~ 100%
	Operating Temperature Range	-20°C~60°C
	Storage Temperature(°C)	-30°C~60°C
	Operating Altitude(m)	3000, >2000 derating
	Ingress Protection Rating	IP66
	Communication Method	Bluetooth, WiFi, RS485, CAN, WAN
	User Interface	LED&APP
	Weight(kg)	Approx. 36.5
	Dimension (W×D×H) (mm)	680×203×406.5
	Environmental Category	Outdoor/Indoor
	Mounting Method[4]	Floor Stand/Wall Mounted
	Anti-theft	Supported
Compliance	Compliance	IEC/EN 62109-1, IEC/EN 62109-2, AS 60947.3, ISO 4892-4 EN 300 328, EN 301 893, EN 301 489-1, EN 301 489-17 V3.3.1, EN IEC 61000-6-1, EN IEC 61000-6-2, EN IEC 61000-6-3, EN IEC 61000-6-4, EN IEC 61000-3-11, EN 61000-3-12, EN 55011, EN 62920, EN IEC 62311, EN 50665 VDE-AR-N 4105, EN 50549-1, EN 50549-10, AS/NZS 4777.2, OVE-Richtlinie R, TOR Erzeuger (for Type A), PTPiREE (Type A), PPDS, CEI 0-21, G98, G99, G100, G98 NI, G99 NI, TR3.3.1 UNE 217001, UNE 217002, IEC 62116, NTS (Type A), C10/C11, SI 4777.2

1. PV input voltage should not exceed the specified maximum value. Exceeding this limit may trigger system protection or affect normal operation.
2. In grid-connected parallel operation, load-side current is limited by the maximum input current rating of the grid port.
3. The 0 ms transfer time applies under the following conditions: compliance with local grid regulations, in the open-circuit state of the power grid, total load power does not exceed the rated output backup power, stable grid conditions.
4. Maximum 3 battery packs supported for wall-mounted installation.

EcoFlow OCEAN 2 LFP Battery

Technical parameters		EF OCEAN 2 LFP Battery 5kWh (EF BD-5-S2)	EF OCEAN 2 LFP Battery 8kWh (EF BD-8-S2)
Performance	Battery Nominal Capacity[1](kWh)	5.02	8.03
	Battery Usable Capacity[1](kWh)	4.87	7.76
	Battery Cell Type	LiFePO4	LiFePO4
	Nominal Charging Power(kW)	2.5	4.1
	Nominal Discharging Power(kW)	3.4	4.1
	Maximum Discharging Power[2] (kW)	4.08	6.4
	Nominal Voltage(V)	400 / 800	400 / 800
	Operating Voltage Range(V)	360-520 / 720-960	360-520 / 720-960
General	Dimension(W×D×H)(mm)	680 × 196 × 279	680 × 196 × 378
	Weight(kg)	46	67.5
	Installation	Floor Stand: A stack of up to 6 batteries Wall Mounted: A stack of up to 3 batteries	
	Operating Temperature[3](°C)	-20~55	-20~55
	Storage Temperature(°C)	-25~60	-25~60
	Max. Operating Altitude[4] (m)	3000	3000
	Relative Humidity	0% ~100%	0% ~100%
	Cooling Method	Natural Cooling	Intelligent Air Cooling
	Ingress Protection Rating	IP66	IP66
	Communication method	CAN	CAN
	Protection	Over-charge/over-discharge protection, over-voltage/ under-voltage protection, over-current protection, short-circuit protection, reverse-polarity protection, temperature protection, thermal-runaway protection, leakage-current protection, insulation protection, over-pressure protection, automatic power-off protection, emergency shutdown	Over-charge/over-discharge protection, over-voltage/ under-voltage protection, over-current protection, short-circuit protection, reverse-polarity protection, temperature protection, thermal-runaway protection, leakage-current protection, insulation protection, over-pressure protection, automatic power-off protection, emergency shutdown, water ingress detection
Compliance		IEC/EN 62619, IEC/EN 62040-1, IEC/EN 62477-1, ISO 13849-1, VDE-AR-E 2510-50, EN IEC 61000-6-1, EN IEC 61000-6-2, EN IEC 61000-6-3, EN IEC 61000-6-4, UN 38.3	IEC/EN 62619, IEC/EN 62040-1, IEC/EN 62477-1, ISO 13849-1, VDE-AR-E 2510-50, EN IEC 61000-6-1, EN IEC 61000-6-2, EN IEC 61000-6-3, EN IEC 61000-6-4, UN 38.3, SA TS 5398

1. Test conditions: 100% depth of discharge, 0.2C rate charge & discharge averagely at 25°C, at the beginning of life.
2. In a laboratory environment at 25°C ambient and device temperature with OCEAN 2 Hybrid Inverter, the discharge time at this power is no more than 30 minutes for Ocean 2 LFP 8kWh and 20 minutes for Ocean 2 LFP 5kWh. Under different usage conditions, actual performance may vary.
3. Power may be derated when the temperature exceeds 40°C.
4. Power may be derated above 2000 m.

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EcoFlow OCEAN 2

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